

# TIPS Daily Report - March 17, 2025

Date  
3/14/2025

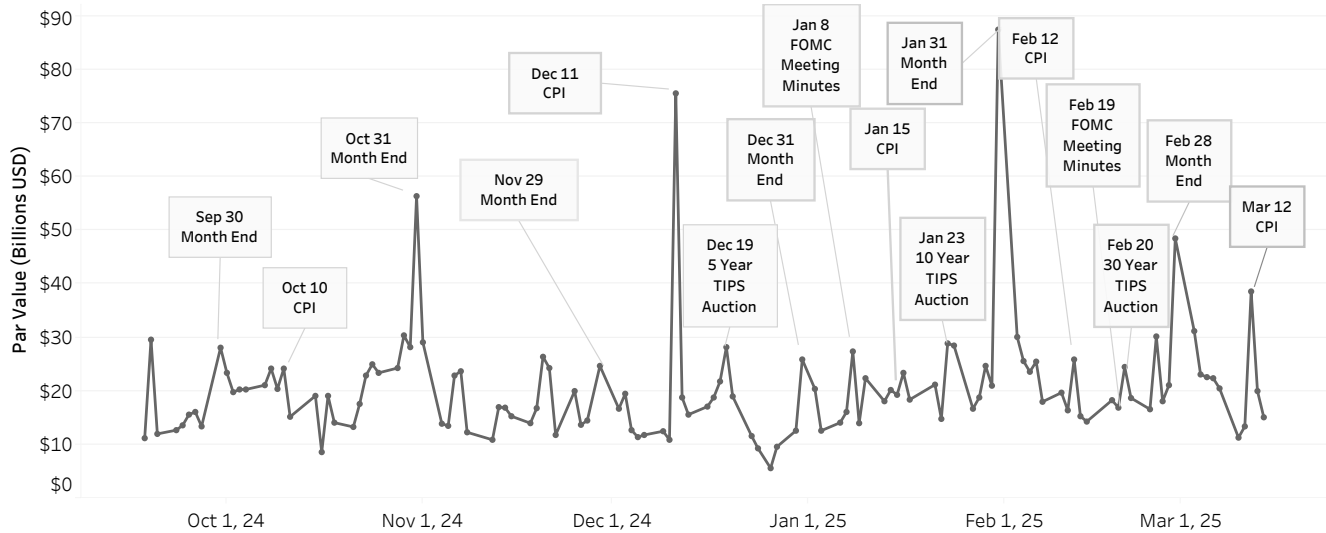
## Total Return Comparison Nominal vs Inflation Indexed

Total Return  
-35.42% 29.69%

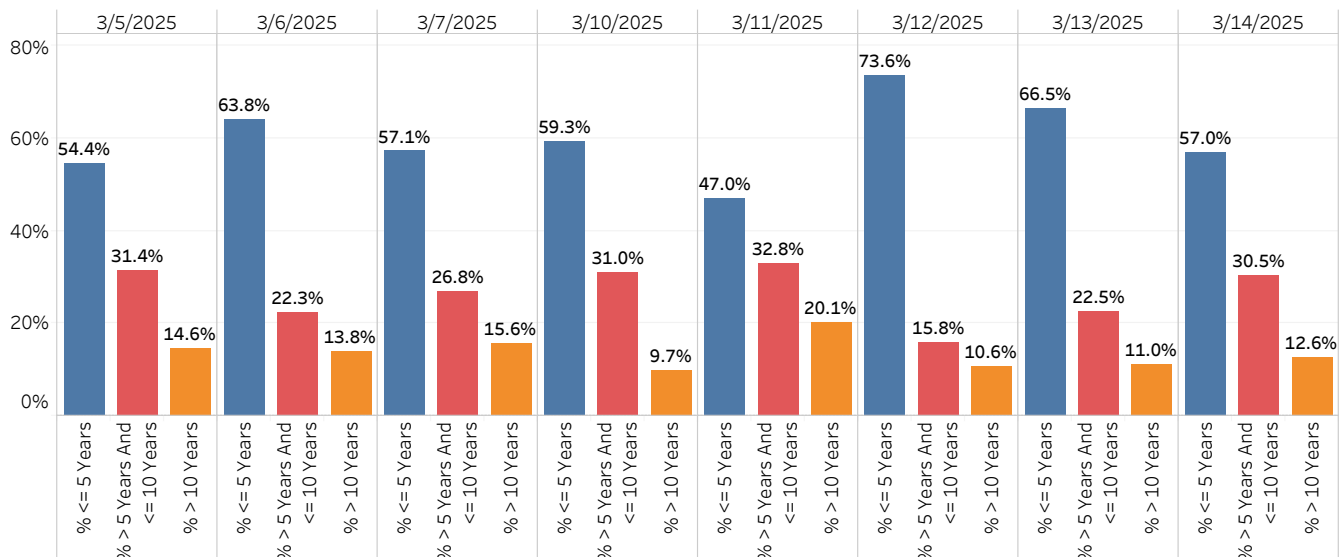
| Maturity  | MTD     |        | YTD     |       | 1 Year  |       | 2 Years |        | 5 Years |         | 10 Years |        |
|-----------|---------|--------|---------|-------|---------|-------|---------|--------|---------|---------|----------|--------|
|           | Nominal | TIPS   | Nominal | TIPS  | Nominal | TIPS  | Nominal | TIPS   | Nominal | TIPS    | Nominal  | TIPS   |
| 1-5 Year  | -0.12%  | -0.34% | 1.51%   | 2.16% | 4.88%   | 6.02% | 7.19%   | 8.70%  | 2.46%   | 18.27%  | 14.88%   | 29.69% |
| 5-10 Year | -0.79%  | -1.30% | 2.62%   | 2.94% | 4.00%   | 4.66% | 3.21%   | 3.93%  | -9.45%  | 7.70%   | 12.80%   | 28.41% |
| 10+ Year  | -2.39%  | -3.56% | 3.63%   | 3.16% | 0.45%   | 0.32% | -6.69%  | -7.79% | -35.42% | -22.36% | 1.22%    | 12.23% |

## TIPS Trading Volume

Total Daily Trading Volume in Billions of US Dollars



## Daily TIPS Volume by Sector



# U.S. Inflation Heatmap

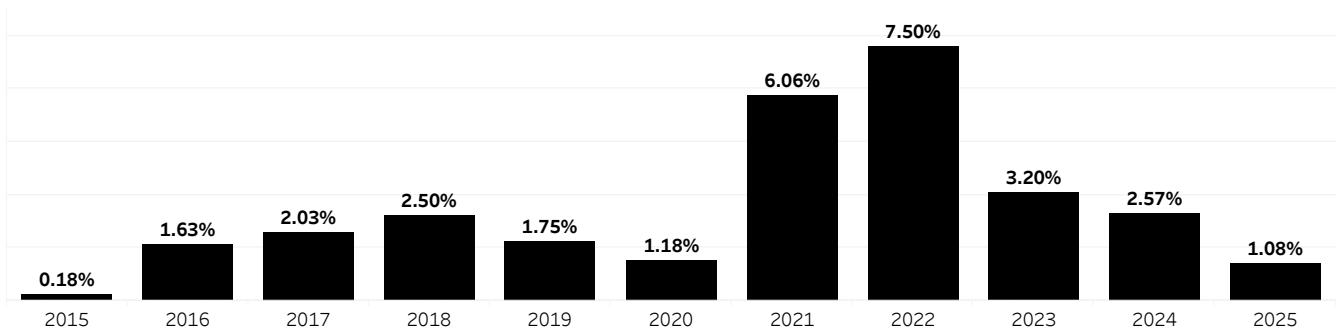
## Consumer Price Index Components

Month-over-Month % Change, Seasonally Adjusted

MoM % Change  
-3.03% 4.02%

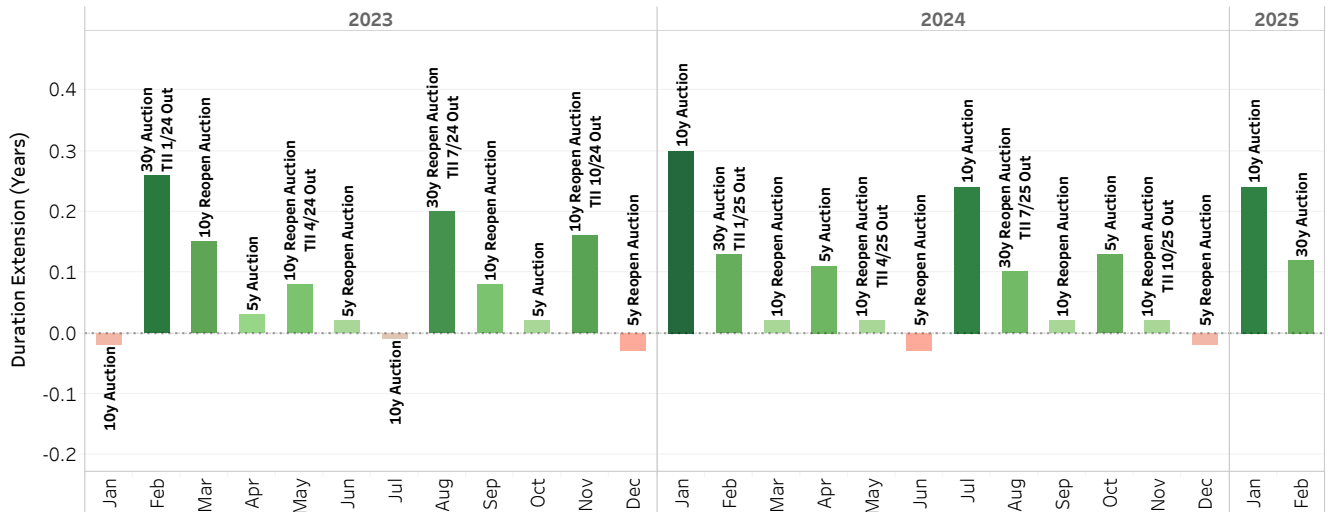
|                           | 2024   |        |        |        |        |        |        |        |        |        | 2025   |        |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                           | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    | Jan    | Feb    |
| Headline CPI              | 0.35%  | 0.29%  | 0.04%  | 0.00%  | 0.14%  | 0.18%  | 0.23%  | 0.23%  | 0.28%  | 0.36%  | 0.47%  | 0.22%  |
| Core CPI                  | 0.38%  | 0.26%  | 0.14%  | 0.09%  | 0.19%  | 0.28%  | 0.31%  | 0.27%  | 0.29%  | 0.21%  | 0.45%  | 0.23%  |
| Core Services Ex-Housing  | 0.65%  | 0.42%  | -0.04% | -0.05% | 0.21%  | 0.33%  | 0.40%  | 0.31%  | 0.34%  | 0.21%  | 0.76%  | 0.22%  |
| Energy                    | 0.52%  | 0.94%  | -1.34% | -1.57% | -0.43% | -0.99% | -0.95% | -0.22% | 0.09%  | 2.42%  | 1.08%  | 0.20%  |
| Gasoline                  | 0.70%  | 2.15%  | -2.43% | -3.03% | -0.90% | -1.18% | -2.33% | -0.98% | 0.29%  | 4.02%  | 1.75%  | -0.96% |
| Electricity               | 0.62%  | 0.04%  | 0.05%  | -0.30% | 0.16%  | -0.41% | 0.54%  | 0.79%  | -0.23% | 0.20%  | -0.04% | 1.02%  |
| Utility Gas               | 0.37%  | -1.96% | -0.63% | 1.51%  | -0.53% | -1.61% | 0.67%  | 0.50%  | 0.48%  | 2.82%  | 1.79%  | 2.54%  |
| Food                      | 0.06%  | 0.12%  | 0.14%  | 0.24%  | 0.15%  | 0.15%  | 0.32%  | 0.21%  | 0.32%  | 0.29%  | 0.36%  | 0.16%  |
| Food At Home              | -0.07% | -0.02% | 0.00%  | 0.12%  | 0.11%  | 0.08%  | 0.31%  | 0.19%  | 0.35%  | 0.28%  | 0.46%  | 0.01%  |
| Food Away From Home       | 0.26%  | 0.35%  | 0.35%  | 0.41%  | 0.21%  | 0.26%  | 0.34%  | 0.24%  | 0.28%  | 0.30%  | 0.24%  | 0.39%  |
| Core Goods                | -0.10% | -0.13% | -0.14% | -0.17% | -0.23% | -0.12% | 0.17%  | 0.02%  | 0.21%  | -0.04% | 0.28%  | 0.22%  |
| Apparel                   | 0.57%  | 0.87%  | -0.21% | -0.01% | -0.27% | 0.10%  | 0.99%  | -0.89% | 0.08%  | 0.13%  | -1.38% | 0.60%  |
| New Vehicles              | -0.17% | -0.36% | -0.42% | -0.15% | -0.14% | 0.03%  | 0.13%  | -0.02% | 0.47%  | 0.36%  | 0.04%  | -0.07% |
| Used Cars and Trucks      | -0.51% | -1.45% | -0.82% | -1.63% | -1.44% | -0.16% | 0.50%  | 1.21%  | 1.29%  | 0.76%  | 2.19%  | 0.88%  |
| Core Services             | 0.53%  | 0.38%  | 0.22%  | 0.19%  | 0.32%  | 0.38%  | 0.36%  | 0.34%  | 0.29%  | 0.26%  | 0.51%  | 0.25%  |
| Shelter                   | 0.46%  | 0.34%  | 0.37%  | 0.23%  | 0.36%  | 0.48%  | 0.27%  | 0.39%  | 0.34%  | 0.27%  | 0.37%  | 0.28%  |
| Rent of Primary Residence | 0.42%  | 0.35%  | 0.37%  | 0.27%  | 0.47%  | 0.35%  | 0.29%  | 0.30%  | 0.25%  | 0.30%  | 0.35%  | 0.28%  |
| OER                       | 0.44%  | 0.43%  | 0.42%  | 0.31%  | 0.36%  | 0.47%  | 0.34%  | 0.41%  | 0.25%  | 0.31%  | 0.31%  | 0.28%  |

## Annual TIPS Inflation Accrual



## Monthly Duration Extension

US TIPS (Series-L)



US TIPS Report

3/17/2025

| Issue  |        |           | Closing Level |           | Total Return |         |         | Breakevens |        |        |        |         |        |        |         |        |        | UST       |
|--------|--------|-----------|---------------|-----------|--------------|---------|---------|------------|--------|--------|--------|---------|--------|--------|---------|--------|--------|-----------|
| Issuer | Coupon | Mat. Date | Bid Price     | Bid Yield | MTD (%)      | QTD (%) | YTD (%) | Current    | 1d Chg | 5d Chg | 1m Chg | 3m High | 3m Low | 3m Avg | 1y High | 1y Low | 1y Avg | Mat. Date |
| TIPS   | 0.125  | 15-Apr-25 | 100.130       | -3.015    | 0.20         | 1.12    | 1.12    | 711.8      | 6.3    | -16.7  | 244.5  | 739.9   | 181.7  | 455.0  | 739.9   | 45.5   | 228.7  | 30-Apr-25 |
| TIPS   | 0.375  | 15-Jul-25 | 100.237       | -0.597    | 0.20         | 1.29    | 1.29    | 479.6      | -10.0  | -24.2  | 29.3   | 526.9   | 263.0  | 409.2  | 526.9   | 146.0  | 271.8  | 15-Aug-25 |
| TIPS   | 0.125  | 15-Oct-25 | 99.847        | 0.166     | 0.26         | 1.43    | 1.43    | 398.5      | -3.0   | -8.4   | 25.2   | 418.8   | 263.0  | 348.0  | 418.8   | 160.3  | 259.9  | 31-Oct-25 |
| TIPS   | 0.625  | 15-Jan-26 | 99.610        | 0.947     | 0.28         | 1.52    | 1.52    | 320.8      | -2.2   | -9.2   | 16.4   | 341.3   | 224.0  | 286.5  | 341.3   | 154.6  | 231.7  | 15-Nov-25 |
| TIPS   | 2.000  | 15-Jan-26 | 100.763       | 0.918     | 0.30         | 1.55    | 1.55    | 264.7      | -4.1   | 2.7    | 11.6   | 289.2   | 159.9  | 232.2  | 289.2   | 91.8   | 177.4  | 15-Feb-26 |
| TIPS   | 0.125  | 15-Apr-26 | 98.885        | 1.076     | 0.31         | 1.72    | 1.72    | 302.9      | -1.2   | -1.6   | 16.3   | 314.7   | 221.6  | 272.1  | 314.7   | 147.1  | 222.9  | 30-Apr-26 |
| TIPS   | 0.125  | 15-Jul-26 | 99.053        | 0.764     | 0.32         | 1.84    | 1.84    | 333.5      | -0.6   | 0.1    | 15.4   | 340.4   | 254.5  | 302.9  | 340.4   | 190.1  | 256.7  | 15-May-26 |
| TIPS   | 0.125  | 15-Oct-26 | 98.679        | 0.920     | 0.23         | 1.89    | 1.89    | 316.1      | -0.7   | 0.9    | 7.3    | 325.2   | 252.8  | 293.7  | 325.2   | 183.0  | 249.0  | 31-Oct-26 |
| TIPS   | 2.375  | 15-Jan-27 | 102.046       | 1.179     | 0.20         | 1.96    | 1.96    | 247.1      | -1.6   | 0.7    | 0.7    | 257.3   | 186.5  | 230.6  | 257.3   | 136.4  | 196.9  | 15-Feb-27 |
| TIPS   | 0.375  | 15-Jan-27 | 98.404        | 1.207     | 0.16         | 1.97    | 1.97    | 286.5      | -0.7   | -0.2   | 4.4    | 296.8   | 233.3  | 268.9  | 296.8   | 173.3  | 233.0  | 15-Nov-26 |
| TIPS   | 0.125  | 15-Apr-27 | 97.420        | 1.354     | 0.13         | 2.04    | 2.04    | 268.6      | -0.2   | 1.2    | -2.7   | 283.6   | 223.3  | 257.7  | 283.6   | 170.8  | 226.5  | 30-Apr-27 |
| TIPS   | 0.375  | 15-Jul-27 | 98.076        | 1.180     | 0.08         | 2.07    | 2.07    | 284.7      | 0.2    | 0.4    | -7.0   | 299.8   | 243.3  | 276.5  | 299.8   | 192.9  | 245.4  | 15-Aug-27 |
| TIPS   | 1.625  | 15-Oct-27 | 100.839       | 1.254     | 0.02         | 2.12    | 2.12    | 276.4      | -0.2   | 0.5    | -9.3   | 292.6   | 238.8  | 270.4  | 292.6   | 190.0  | 241.9  | 30-Sep-27 |
| TIPS   | 1.750  | 15-Jan-28 | 100.755       | 1.433     | -0.05        | 2.18    | 2.18    | 246.5      | 0.0    | -0.1   | -6.8   | 262.5   | 214.2  | 240.3  | 262.5   | 172.6  | 219.8  | 15-Nov-27 |
| TIPS   | 0.500  | 15-Jan-28 | 97.305        | 1.445     | -0.03        | 2.22    | 2.22    | 258.5      | -0.7   | -2.0   | -10.9  | 275.5   | 228.5  | 256.2  | 275.5   | 184.0  | 231.7  | 15-Feb-28 |
| TIPS   | 3.625  | 15-Apr-28 | 106.206       | 1.489     | -0.09        | 2.25    | 2.25    | 241.4      | 0.9    | -0.5   | -9.6   | 256.4   | 212.1  | 237.5  | 256.4   | 165.0  | 212.6  | 15-Aug-28 |
| TIPS   | 1.250  | 15-Apr-28 | 99.069        | 1.540     | -0.10        | 2.28    | 2.28    | 249.3      | -0.4   | -1.5   | -12.7  | 267.5   | 223.2  | 248.4  | 267.5   | 180.5  | 227.2  | 31-Mar-28 |
| TIPS   | 0.750  | 15-Jul-28 | 97.786        | 1.403     | -0.16        | 2.29    | 2.29    | 264.9      | -0.6   | -1.0   | -12.9  | 283.0   | 240.9  | 264.8  | 283.0   | 198.8  | 243.2  | 15-Aug-28 |
| TIPS   | 2.375  | 15-Oct-28 | 103.122       | 1.461     | -0.15        | 2.35    | 2.35    | 260.3      | -0.7   | -2.1   | -13.3  | 277.3   | 237.8  | 260.9  | 277.3   | 195.8  | 239.9  | 30-Sep-28 |
| TIPS   | 2.500  | 15-Jan-29 | 103.305       | 1.569     | -0.22        | 2.35    | 2.35    | 233.4      | -0.1   | -2.1   | -14.1  | 251.6   | 212.7  | 235.0  | 251.6   | 173.1  | 217.5  | 15-Feb-29 |
| TIPS   | 0.875  | 15-Jan-29 | 97.282        | 1.586     | -0.24        | 2.38    | 2.38    | 248.2      | -0.1   | -2.0   | -14.3  | 265.8   | 228.7  | 249.8  | 265.8   | 192.6  | 233.2  | 15-Nov-28 |
| TIPS   | 3.875  | 15-Apr-29 | 108.710       | 1.624     | -0.24        | 2.41    | 2.41    | 227.9      | 0.0    | -2.6   | -12.8  | 247.2   | 207.5  | 229.4  | 247.2   | 171.2  | 214.1  | 15-Feb-29 |
| TIPS   | 2.125  | 15-Apr-29 | 101.801       | 1.649     | -0.28        | 2.41    | 2.41    | 242.8      | -0.7   | -3.2   | -13.0  | 261.2   | 225.1  | 245.4  | 261.2   | 187.7  | 226.5  | 30-Apr-29 |
| TIPS   | 0.250  | 15-Jul-29 | 94.557        | 1.532     | -0.40        | 2.47    | 2.47    | 254.4      | -0.9   | -3.1   | -14.1  | 273.2   | 237.6  | 257.2  | 273.2   | 202.2  | 241.4  | 15-May-29 |
| TIPS   | 1.625  | 15-Oct-29 | 100.168       | 1.575     | -0.33        | 2.53    | 2.53    | 252.5      | -0.4   | -1.6   | -11.8  | 270.1   | 235.2  | 254.6  | 270.1   | 234.6  | 252.8  | 31-Oct-29 |
| TIPS   | 0.125  | 15-Jan-30 | 92.694        | 1.681     | -0.51        | 2.44    | 2.44    | 238.6      | -0.5   | -2.2   | -14.1  | 258.4   | 225.5  | 243.5  | 258.4   | 193.9  | 228.8  | 15-Nov-29 |
| TIPS   | 0.125  | 15-Jul-30 | 92.191        | 1.639     | -0.56        | 2.62    | 2.62    | 249.7      | -1.4   | -3.1   | -14.0  | 268.3   | 237.2  | 254.9  | 268.3   | 205.0  | 240.5  | 15-Aug-30 |
| TIPS   | 0.125  | 15-Jan-31 | 90.809        | 1.768     | -0.64        | 2.67    | 2.67    | 235.5      | -1.5   | -3.8   | -15.3  | 255.9   | 225.8  | 242.4  | 255.9   | 195.3  | 229.0  | 15-Feb-31 |
| TIPS   | 0.125  | 15-Jul-31 | 90.259        | 1.738     | -0.65        | 2.87    | 2.87    | 245.1      | -1.9   | -3.8   | -14.9  | 264.7   | 237.8  | 252.0  | 264.7   | 204.3  | 238.4  | 15-Aug-31 |
| TIPS   | 0.125  | 15-Jan-32 | 89.000        | 1.833     | -0.52        | 3.02    | 3.02    | 238.5      | -1.1   | -1.5   | -13.3  | 256.4   | 231.3  | 244.3  | 256.4   | 200.3  | 232.7  | 15-Feb-32 |
| TIPS   | 3.375  | 15-Apr-32 | 110.107       | 1.812     | -0.40        | 2.76    | 2.76    | 229.1      | -0.3   | 1.2    | -13.6  | 246.9   | 224.4  | 235.2  | 246.9   | 181.5  | 217.9  | 15-Feb-31 |
| TIPS   | 0.625  | 15-Jul-32 | 91.778        | 1.815     | -0.60        | 3.13    | 3.13    | 241.1      | -1.2   | -1.6   | -14.2  | 260.3   | 234.4  | 247.3  | 260.3   | 203.6  | 236.0  | 15-Aug-32 |
| TIPS   | 1.125  | 15-Jan-33 | 94.290        | 1.904     | -0.63        | 3.04    | 3.04    | 231.3      | -0.7   | -1.7   | -14.2  | 250.2   | 225.7  | 237.9  | 250.2   | 195.8  | 228.1  | 15-Nov-32 |
| TIPS   | 1.375  | 15-Jul-33 | 95.946        | 1.892     | -0.71        | 3.16    | 3.16    | 236.3      | -0.3   | -1.7   | -14.7  | 255.6   | 231.5  | 243.2  | 255.6   | 202.2  | 233.1  | 15-May-33 |
| TIPS   | 1.750  | 15-Jan-34 | 98.252        | 1.958     | -0.72        | 3.16    | 3.16    | 232.7      | -0.7   | -1.3   | -13.2  | 250.2   | 227.9  | 239.3  | 250.2   | 199.0  | 229.0  | 15-Feb-34 |
| TIPS   | 1.875  | 15-Jul-34 | 99.366        | 1.944     | -0.77        | 3.25    | 3.25    | 234.6      | -0.8   | -1.4   | -13.8  | 252.9   | 230.1  | 241.6  | 252.9   | 202.2  | 229.7  | 15-May-34 |
| TIPS   | 2.125  | 15-Jan-35 | 101.061       | 2.001     | -0.83        | N/A     | N/A     | 230.1      | -0.7   | -1.6   | -13.7  | 247.8   | 230.1  | 239.5  | 247.8   | 230.1  | 239.5  | 15-Nov-34 |
| TIPS   | 2.125  | 15-Feb-40 | 99.488        | 2.142     | -1.38        | 3.98    | 3.98    | 235.2      | -0.7   | -0.8   | -10.0  | 250.9   | 234.4  | 242.7  | 250.9   | 201.4  | 231.6  | 15-Feb-40 |
| TIPS   | 2.125  | 15-Feb-41 | 99.259        | 2.156     | -1.50        | 3.50    | 3.50    | 236.9      | -0.8   | 0.3    | -11.1  | 253.4   | 236.6  | 245.7  | 253.4   | 205.1  | 235.3  | 15-Feb-41 |
| TIPS   | 0.750  | 15-Feb-42 | 78.847        | 2.237     | -1.89        | 3.57    | 3.57    | 235.2      | -1.1   | -0.9   | -12.9  | 253.7   | 235.2  | 245.1  | 253.7   | 210.9  | 237.3  | 15-Feb-42 |
| TIPS   | 0.625  | 15-Feb-43 | 75.504        | 2.275     | -2.03        | 3.74    | 3.74    | 236.3      | -1.0   | -1.1   | -12.4  | 253.8   | 236.3  | 245.9  | 253.8   | 214.3  | 239.6  | 15-Feb-43 |
| TIPS   | 1.375  | 15-Feb-44 | 85.648        | 2.297     | -2.02        | 3.79    | 3.79    | 236.2      | -0.8   | -1.6   | -12.0  | 253.3   | 236.2  | 245.1  | 253.3   | 216.6  | 239.4  | 15-Feb-44 |
| TIPS   | 0.750  | 15-Feb-45 | 74.671        | 2.326     | -2.44        | 3.78    | 3.78    | 237.1      | -1.2   | -1.9   | -11.6  | 252.8   | 237.1  | 245.4  | 252.8   | 216.9  | 239.9  | 15-Feb-45 |
| TIPS   | 1.000  | 15-Feb-46 | 77.610        | 2.340     | -2.42        | 3.86    | 3.86    | 236.9      | -1.2   | -1.9   | -10.8  | 251.1   | 236.9  | 244.5  | 251.1   | 216.4  | 238.9  | 15-Feb-46 |
| TIPS   | 0.875  | 15-Feb-47 | 74.572        | 2.347     | -2.46        | 3.87    | 3.87    | 237.0      | -1.1   | -2.1   | -11.9  | 252.1   | 237.0  | 245.2  | 252.1   | 216.3  | 239.4  | 15-Feb-47 |
| TIPS   | 1.000  | 15-Feb-48 | 75.702        | 2.360     | -2.60        | 3.62    | 3.62    | 236.9      | -1.2   | -1.9   | -12.3  | 252.5   | 236.9  | 245.8  | 252.5   | 218.3  | 239.9  | 15-Feb-48 |
| TIPS   | 1.000  | 15-Feb-49 | 74.961        | 2.357     | -2.54        | 3.67    | 3.67    | 237.2      | -1.1   | -2.7   | -11.6  | 251.8   | 237.2  | 245.6  | 251.8   | 218.5  | 239.7  | 15-Feb-49 |
| TIPS   | 0.250  | 15-Feb-50 | 60.046        | 2.365     | -2.92        | 3.61    | 3.61    | 235.8      | -1.4   | -2.3   | -12.5  | 251.7   | 235.8  | 245.2  | 251.7   | 219.2  | 239.0  | 15-Feb-50 |
| TIPS   | 0.125  | 15-Feb-51 | 56.740        | 2.349     | -2.84        | 3.77    | 3.77    | 235.9      | -1.4   | -2.3   | -12.7  | 251.3   | 235.9  | 245.0  | 251.3   | 219.4  | 238.7  | 15-Feb-51 |
| TIPS   | 0.125  | 15-Feb-52 | 55.862        | 2.332     | -2.82        | 3.62    | 3.62    | 235.9      | -1.6   | -1.4   | -12.6  | 251.1   | 235.9  | 244.7  | 251.1   | 217.4  | 237.7  | 15-Feb-52 |

|      |       |           |         |       |       |      |      |       |      |      |       |       |       |       |       |       |       |           |
|------|-------|-----------|---------|-------|-------|------|------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-----------|
| TIPS | 1.500 | 15-Feb-53 | 82.237  | 2.365 | -2.33 | 3.42 | 3.42 | 228.8 | -1.3 | -1.1 | -11.8 | 242.8 | 228.8 | 236.9 | 242.8 | 208.9 | 231.1 | 15-Feb-53 |
| TIPS | 2.125 | 15-Feb-54 | 94.854  | 2.364 | -2.12 | 3.30 | 3.30 | 226.3 | -1.2 | -0.7 | -11.3 | 240.2 | 226.3 | 234.2 | 240.2 | 206.1 | 227.5 | 15-Feb-54 |
| TIPS | 2.375 | 15-Feb-55 | 100.145 | 2.364 | -2.05 | N/A  | N/A  | 223.4 | -1.0 | -0.7 | N/A   | 227.3 | 223.4 | 225.2 | 227.3 | 223.4 | 225.2 | 15-Feb-55 |

US TIPS Total Return Performance vs. Nominal

3/17/2025

| Tips   |           | Nominal |           | WTD Total Return |         |            | MTD Total Return |         |            | QTD Total Return |         |            | YTD Total Return |         |            |
|--------|-----------|---------|-----------|------------------|---------|------------|------------------|---------|------------|------------------|---------|------------|------------------|---------|------------|
| Coupon | Mat.Date  | Coupon  | Mat.Date  | Tips             | Nominal | Net Return | Tips             | Nominal | Net Return | Tips             | Nominal | Net Return | Tips             | Nominal | Net Return |
| 0.125  | 15-Apr-25 | 0.375   | 30-Apr-25 | 0.06             | 0.02    | 0.04       | 0.20             | 0.17    | 0.03       | 1.12             | 0.90    | 0.22       | 1.12             | 0.90    | 0.22       |
| 0.375  | 15-Jul-25 | 2.000   | 15-Aug-25 | 0.06             | 0.03    | 0.03       | 0.20             | 0.22    | -0.02      | 1.29             | 0.88    | 0.41       | 1.29             | 0.88    | 0.41       |
| 0.125  | 15-Oct-25 | 0.250   | 31-Oct-25 | 0.04             | 0.01    | 0.03       | 0.26             | 0.18    | 0.08       | 1.43             | 0.91    | 0.52       | 1.43             | 0.91    | 0.52       |
| 0.625  | 15-Jan-26 | 2.250   | 15-Nov-25 | 0.05             | 0.01    | 0.04       | 0.28             | 0.20    | 0.08       | 1.52             | 0.92    | 0.60       | 1.52             | 0.92    | 0.60       |
| 2.000  | 15-Jan-26 | 6.000   | 15-Feb-26 | 0.05             | 0.05    | 0.00       | 0.30             | 0.13    | 0.17       | 1.55             | 0.98    | 0.57       | 1.55             | 0.98    | 0.57       |
| 0.125  | 15-Apr-26 | 0.750   | 30-Apr-26 | 0.02             | -0.02   | 0.04       | 0.31             | 0.14    | 0.17       | 1.72             | 1.02    | 0.70       | 1.72             | 1.02    | 0.70       |
| 0.125  | 15-Jul-26 | 1.625   | 15-May-26 | 0.02             | -0.01   | 0.03       | 0.32             | 0.13    | 0.19       | 1.84             | 1.06    | 0.78       | 1.84             | 1.06    | 0.78       |
| 0.125  | 15-Oct-26 | 1.125   | 31-Oct-26 | 0.01             | -0.04   | 0.05       | 0.23             | 0.07    | 0.16       | 1.89             | 1.13    | 0.76       | 1.89             | 1.13    | 0.76       |
| 2.375  | 15-Jan-27 | 6.625   | 15-Feb-27 | 0.01             | -0.02   | 0.03       | 0.20             | 0.06    | 0.14       | 1.96             | 1.21    | 0.75       | 1.96             | 1.21    | 0.75       |
| 0.375  | 15-Jan-27 | 2.000   | 15-Nov-26 | 0.00             | -0.03   | 0.03       | 0.16             | 0.09    | 0.07       | 1.97             | 1.17    | 0.80       | 1.97             | 1.17    | 0.80       |
| 0.125  | 15-Apr-27 | 2.750   | 30-Apr-27 | 0.00             | -0.04   | 0.04       | 0.13             | 0.06    | 0.07       | 2.04             | 1.30    | 0.74       | 2.04             | 1.30    | 0.74       |
| 0.375  | 15-Jul-27 | 2.250   | 15-Aug-27 | 0.00             | -0.05   | 0.05       | 0.08             | 0.06    | 0.02       | 2.07             | 1.37    | 0.70       | 2.07             | 1.37    | 0.70       |
| 1.625  | 15-Oct-27 | 4.125   | 30-Sep-27 | 0.00             | -0.04   | 0.04       | 0.02             | 0.07    | -0.05      | 2.12             | 1.46    | 0.66       | 2.12             | 1.46    | 0.66       |
| 1.750  | 15-Jan-28 | 6.125   | 15-Nov-27 | 0.00             | -0.02   | 0.02       | -0.05            | 0.07    | -0.12      | 2.18             | 1.54    | 0.64       | 2.18             | 1.54    | 0.64       |
| 0.500  | 15-Jan-28 | 2.750   | 15-Feb-28 | -0.02            | -0.05   | 0.03       | -0.03            | 0.03    | -0.06      | 2.22             | 1.60    | 0.62       | 2.22             | 1.60    | 0.62       |
| 3.625  | 15-Apr-28 | 5.500   | 15-Aug-28 | -0.02            | -0.04   | 0.02       | -0.09            | 0.04    | -0.13      | 2.25             | 1.70    | 0.55       | 2.25             | 1.70    | 0.55       |
| 1.250  | 15-Apr-28 | 3.625   | 31-Mar-28 | 0.00             | -0.05   | 0.05       | -0.10            | 0.05    | -0.15      | 2.28             | 1.63    | 0.65       | 2.28             | 1.63    | 0.65       |
| 0.750  | 15-Jul-28 | 2.875   | 15-Aug-28 | -0.02            | -0.05   | 0.03       | -0.16            | 0.01    | -0.17      | 2.29             | 1.76    | 0.53       | 2.29             | 1.76    | 0.53       |
| 2.375  | 15-Oct-28 | 4.625   | 30-Sep-28 | -0.01            | -0.04   | 0.03       | -0.15            | 0.00    | -0.15      | 2.35             | 1.77    | 0.58       | 2.35             | 1.77    | 0.58       |
| 2.500  | 15-Jan-29 | 5.250   | 15-Feb-29 | -0.01            | -0.02   | 0.01       | -0.22            | -0.03   | -0.19      | 2.35             | 1.88    | 0.47       | 2.35             | 1.88    | 0.47       |
| 0.875  | 15-Jan-29 | 3.125   | 15-Nov-28 | -0.02            | -0.04   | 0.02       | -0.24            | -0.01   | -0.23      | 2.38             | 1.82    | 0.56       | 2.38             | 1.82    | 0.56       |
| 3.875  | 15-Apr-29 | 5.250   | 15-Feb-29 | 0.00             | -0.02   | 0.02       | -0.24            | -0.03   | -0.21      | 2.41             | 1.88    | 0.53       | 2.41             | 1.88    | 0.53       |
| 2.125  | 15-Apr-29 | 4.625   | 30-Apr-29 | -0.01            | -0.03   | 0.02       | -0.28            | -0.01   | -0.27      | 2.41             | 1.96    | 0.45       | 2.41             | 1.96    | 0.45       |
| 0.250  | 15-Jul-29 | 2.375   | 15-May-29 | -0.03            | -0.04   | 0.01       | -0.40            | -0.04   | -0.36      | 2.47             | 1.95    | 0.52       | 2.47             | 1.95    | 0.52       |
| 1.625  | 15-Oct-29 | 4.125   | 31-Oct-29 | -0.01            | -0.03   | 0.02       | -0.33            | -0.08   | -0.25      | 2.53             | 2.09    | 0.44       | 2.53             | 2.09    | 0.44       |
| 0.125  | 15-Jan-30 | 1.750   | 15-Nov-29 | -0.03            | -0.05   | 0.02       | -0.51            | -0.11   | -0.40      | 2.44             | 2.11    | 0.33       | 2.44             | 2.11    | 0.33       |
| 0.125  | 15-Jul-30 | 0.625   | 15-Aug-30 | -0.03            | -0.04   | 0.01       | -0.56            | -0.17   | -0.39      | 2.62             | 2.40    | 0.22       | 2.62             | 2.40    | 0.22       |
| 0.125  | 15-Jan-31 | 1.125   | 15-Feb-31 | -0.06            | -0.03   | -0.03      | -0.64            | -0.19   | -0.45      | 2.67             | 2.47    | 0.20       | 2.67             | 2.47    | 0.20       |
| 0.125  | 15-Jul-31 | 1.250   | 15-Aug-31 | -0.05            | -0.01   | -0.04      | -0.65            | -0.25   | -0.40      | 2.87             | 2.68    | 0.19       | 2.87             | 2.68    | 0.19       |
| 0.125  | 15-Jan-32 | 1.875   | 15-Feb-32 | -0.04            | -0.02   | -0.02      | -0.52            | -0.29   | -0.23      | 3.02             | 2.68    | 0.34       | 3.02             | 2.68    | 0.34       |
| 3.375  | 15-Apr-32 | 5.375   | 15-Feb-31 | 0.00             | -0.02   | 0.02       | -0.40            | -0.14   | -0.26      | 2.76             | 2.47    | 0.29       | 2.76             | 2.47    | 0.29       |
| 0.625  | 15-Jul-32 | 2.750   | 15-Aug-32 | -0.02            | 0.01    | -0.03      | -0.60            | -0.31   | -0.29      | 3.13             | 2.78    | 0.35       | 3.13             | 2.78    | 0.35       |
| 1.125  | 15-Jan-33 | 4.125   | 15-Nov-32 | 0.02             | 0.01    | 0.01       | -0.63            | -0.25   | -0.38      | 3.04             | 2.70    | 0.34       | 3.04             | 2.70    | 0.34       |
| 1.375  | 15-Jul-33 | 3.375   | 15-May-33 | 0.01             | 0.01    | 0.00       | -0.71            | -0.33   | -0.38      | 3.16             | 2.95    | 0.21       | 3.16             | 2.95    | 0.21       |
| 1.750  | 15-Jan-34 | 4.000   | 15-Feb-34 | 0.03             | 0.04    | -0.01      | -0.72            | -0.34   | -0.38      | 3.16             | 3.00    | 0.16       | 3.16             | 3.00    | 0.16       |
| 1.875  | 15-Jul-34 | 4.375   | 15-May-34 | 0.05             | 0.04    | 0.01       | -0.77            | -0.34   | -0.43      | 3.25             | 3.02    | 0.23       | 3.25             | 3.02    | 0.23       |
| 2.125  | 15-Jan-35 | 4.250   | 15-Nov-34 | 0.05             | 0.06    | -0.01      | -0.83            | -0.35   | -0.48      | N/A              | N/A     | N/A        | N/A              | N/A     | N/A        |
| 2.125  | 15-Feb-40 | 4.625   | 15-Feb-40 | 0.12             | 0.16    | -0.04      | -1.38            | -0.70   | -0.68      | 3.98             | 3.81    | 0.17       | 3.98             | 3.81    | 0.17       |
| 2.125  | 15-Feb-41 | 4.750   | 15-Feb-41 | 0.13             | 0.19    | -0.06      | -1.50            | -0.69   | -0.81      | 3.50             | 3.76    | -0.26      | 3.50             | 3.76    | -0.26      |
| 0.750  | 15-Feb-42 | 3.125   | 15-Feb-42 | 0.14             | 0.22    | -0.08      | -1.89            | -0.78   | -1.11      | 3.57             | 3.90    | -0.33      | 3.57             | 3.90    | -0.33      |
| 0.625  | 15-Feb-43 | 3.125   | 15-Feb-43 | 0.10             | 0.24    | -0.14      | -2.03            | -0.70   | -1.33      | 3.74             | 4.07    | -0.33      | 3.74             | 4.07    | -0.33      |
| 1.375  | 15-Feb-44 | 3.625   | 15-Feb-44 | 0.15             | 0.23    | -0.08      | -2.02            | -0.86   | -1.16      | 3.79             | 3.95    | -0.16      | 3.79             | 3.95    | -0.16      |
| 0.750  | 15-Feb-45 | 2.500   | 15-Feb-45 | 0.13             | 0.24    | -0.11      | -2.44            | -0.99   | -1.45      | 3.78             | 3.98    | -0.20      | 3.78             | 3.98    | -0.20      |
| 1.000  | 15-Feb-46 | 2.500   | 15-Feb-46 | 0.11             | 0.25    | -0.14      | -2.42            | -1.04   | -1.38      | 3.86             | 4.13    | -0.27      | 3.86             | 4.13    | -0.27      |
| 0.875  | 15-Feb-47 | 3.000   | 15-Feb-47 | 0.12             | 0.27    | -0.15      | -2.46            | -0.97   | -1.49      | 3.87             | 4.10    | -0.23      | 3.87             | 4.10    | -0.23      |
| 1.000  | 15-Feb-48 | 3.000   | 15-Feb-48 | 0.15             | 0.27    | -0.12      | -2.60            | -0.96   | -1.64      | 3.62             | 4.19    | -0.57      | 3.62             | 4.19    | -0.57      |
| 1.000  | 15-Feb-49 | 3.000   | 15-Feb-49 | 0.13             | 0.30    | -0.17      | -2.54            | -0.99   | -1.55      | 3.67             | 4.27    | -0.60      | 3.67             | 4.27    | -0.60      |

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|       |           |       |           |      |      |       |       |       |       |      |      |       |      |      |       |
|-------|-----------|-------|-----------|------|------|-------|-------|-------|-------|------|------|-------|------|------|-------|
| 0.250 | 15-Feb-50 | 2.000 | 15-Feb-50 | 0.14 | 0.36 | -0.22 | -2.92 | -1.13 | -1.79 | 3.61 | 4.40 | -0.79 | 3.61 | 4.40 | -0.79 |
| 0.125 | 15-Feb-51 | 1.875 | 15-Feb-51 | 0.19 | 0.37 | -0.18 | -2.84 | -1.22 | -1.62 | 3.77 | 4.44 | -0.67 | 3.77 | 4.44 | -0.67 |
| 0.125 | 15-Feb-52 | 2.250 | 15-Feb-52 | 0.24 | 0.35 | -0.11 | -2.82 | -1.26 | -1.56 | 3.62 | 4.29 | -0.67 | 3.62 | 4.29 | -0.67 |
| 1.500 | 15-Feb-53 | 3.625 | 15-Feb-53 | 0.19 | 0.31 | -0.12 | -2.33 | -1.16 | -1.17 | 3.42 | 4.10 | -0.68 | 3.42 | 4.10 | -0.68 |
| 2.125 | 15-Feb-54 | 4.250 | 15-Feb-54 | 0.23 | 0.33 | -0.10 | -2.12 | -1.17 | -0.95 | 3.30 | 3.79 | -0.49 | 3.30 | 3.79 | -0.49 |
| 2.375 | 15-Feb-55 | 4.625 | 15-Feb-55 | 0.22 | 0.27 | -0.05 | -2.05 | -1.10 | -0.95 | N/A  | N/A  | N/A   | N/A  | N/A  | N/A   |